Creality CR-10S 3D Printer Post-Build Checklist

__ Flash new firmware - Build # _____ Commit SHA _____
__ Powers on
__ M502 to reset EEPROM to factory default (if new FW version); M500 to write EEPROM
__ M115 confirm firmware info

__ Screen & control wheel work
__ M119 - endstop state (or M43 E1 to watch endstops, M43 E0 to stop); test
    __ X __ Y __ Z
__ “M43 S” to test BLTouch (M401 deploy probe M402 stow probe)

__ M105 report temperature
    __ Bed looks sane __ Hotend looks sane
__ Print cooling fan - “M106 P0 S255” for full speed; “M107 P0” to turn off

__ Quick PID autotune bed: `M303 C6 D1 E-1 S50 U1`
__ Thermocouple on bed; heat bed to various temperatures and compare thermocouple and M105 (see reverse)
__ Quick PID autotune hotend: `M303 C6 D1 E0 S200 U1`
__ Thermocouple in nozzle; heat to various temperatures and compare with M105 (see reverse)
    __ Hotend fan turned on

__ **If no thermocouple in nozzle!!**
    __ Auto-home
    __ Move X axis in both directions
    __ Move Y axis in both directions
    __ Move Z axis in both directions
__ Case fan turned on

__ **If no thermocouple in nozzle!!** Probe bed with BLTouch (G30 X150 Y150)
__ **If no thermocouple in nozzle!!** M48 Probe Repeatability Test

__ Put on nozzle; tighten nozzle, heat break/block, heater and temp sensor screws (Heat hotend to 220 and tighten nozzle, heat block, grub screw)
    __ Move Extruder in both directions (needs hotend heated)

__ BLTouch mesh calculation

__ Test filament runout sensor (M119 and M412)

__ Run a test print

Temperature sensor test. To get ADC values, firmware must be built with SHOW_TEMP_ADC_VALUES enabled in Configuration_adv.h

BED TEMPERATURE

Requested °C	Reported °C	ADC Value	Thermocouple °C
(idle)			
30			
35			
40			
45			
50			
55			

EXTRUDER TEMPERATURE

Requested °C	Reported °C	ADC Value	Thermocouple °C
(idle)			
50			
75			
100			
150			
200			
225			
250			
300			
325			